FIG. 1

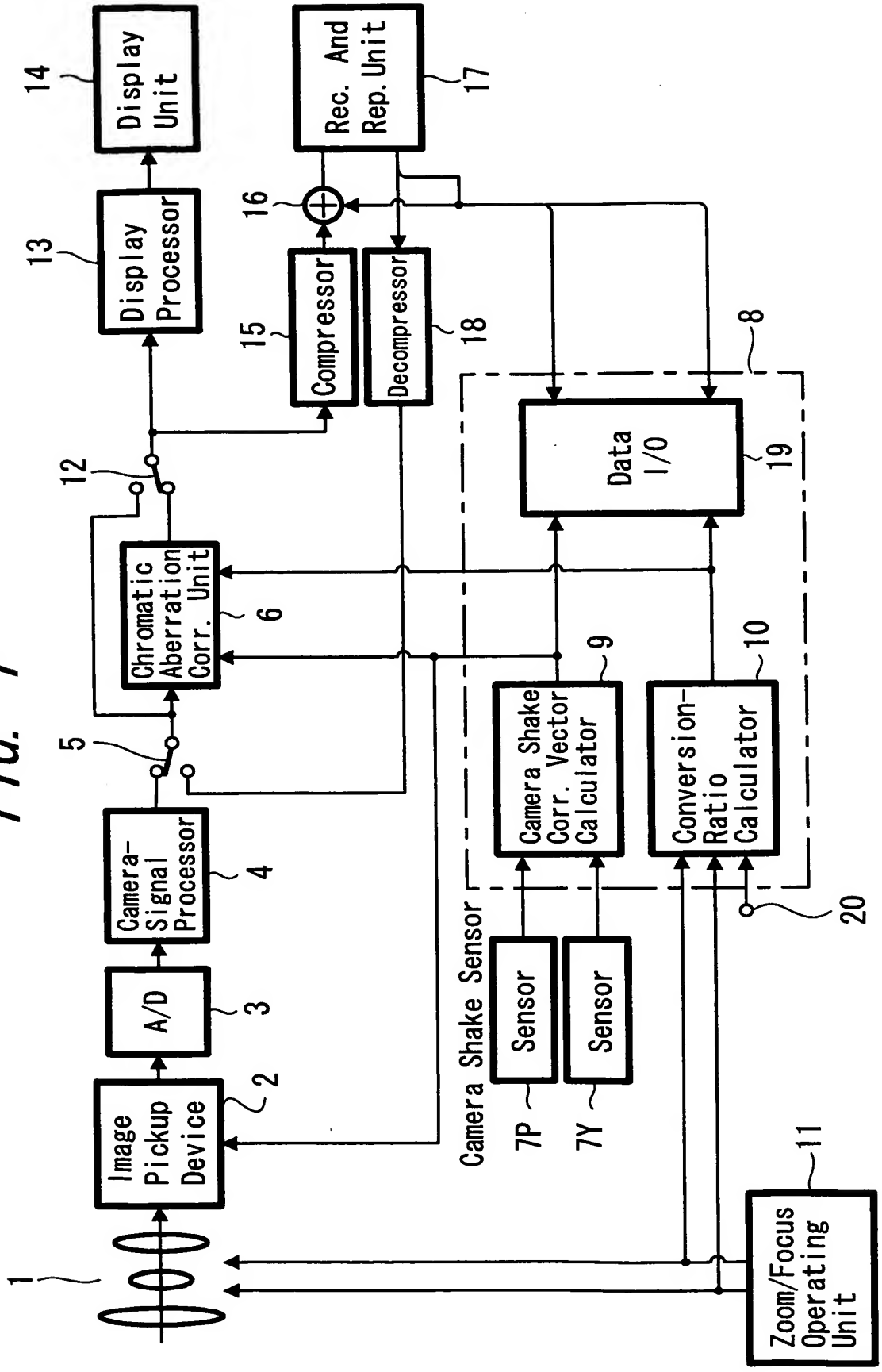
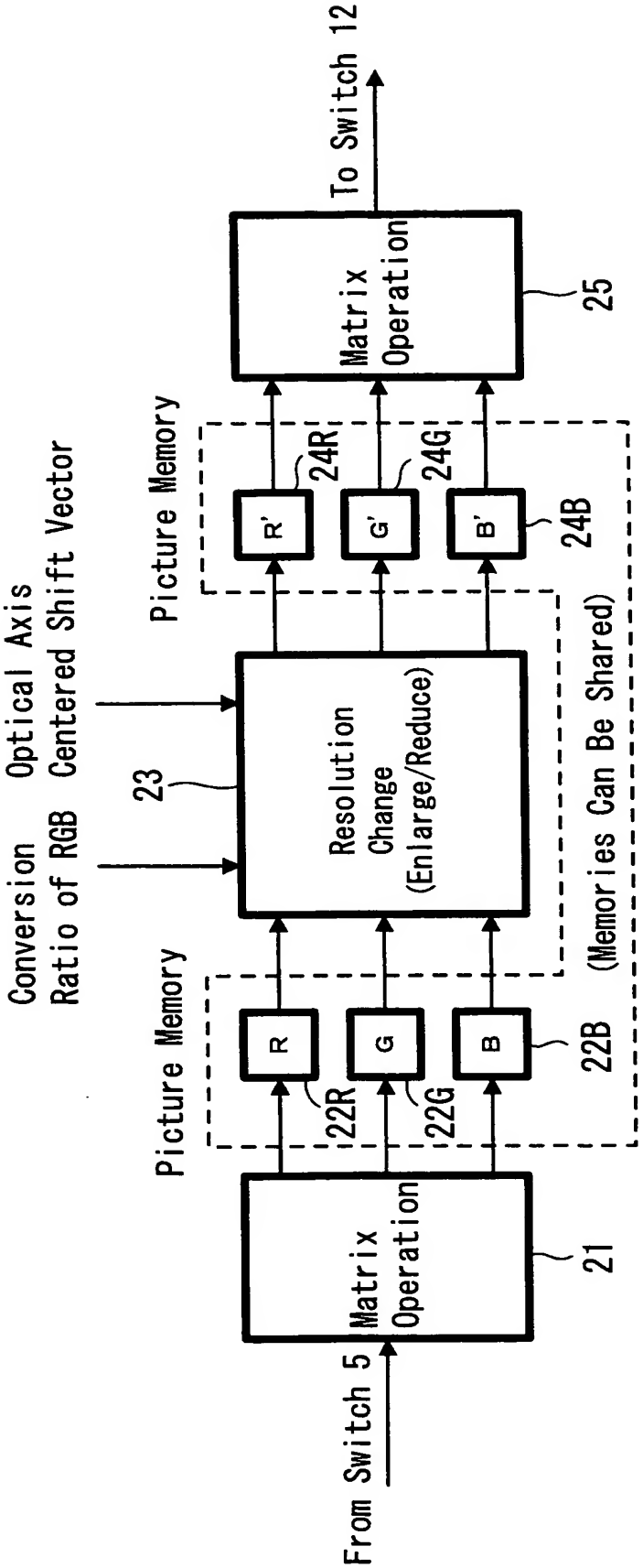

1
Image Pickup Device
2
A/D
3
Camera-Signal Processor
4
5
Chromatic Aberration Corr. Unit
6
12
Display Processor
13
Display Unit
14
Compressor
15
16
Decompressor
18
Rec. And Rep. Unit
17
8
Data I/O
19
Camera Shake Corr. Vector Calculator
9
Conversion-Ratio Calculator
10
20
Camera Shake Sensor
Sensor
7P
Sensor
7Y
Zoom/Focus Operating Unit
11

FIG. 2


From Switch 5
Matrix Operation
21
Picture Memory
R
G
B
22R
22G
22B
(Memories Can Be Shared)
Conversion Ratio of RGB
Optical Axis Centered Shift Vector
23
Resolution Change (Enlarge/Reduce)
Picture Memory
R'
G'
B'
24R
24G
24B
Matrix Operation
25
To Switch 12

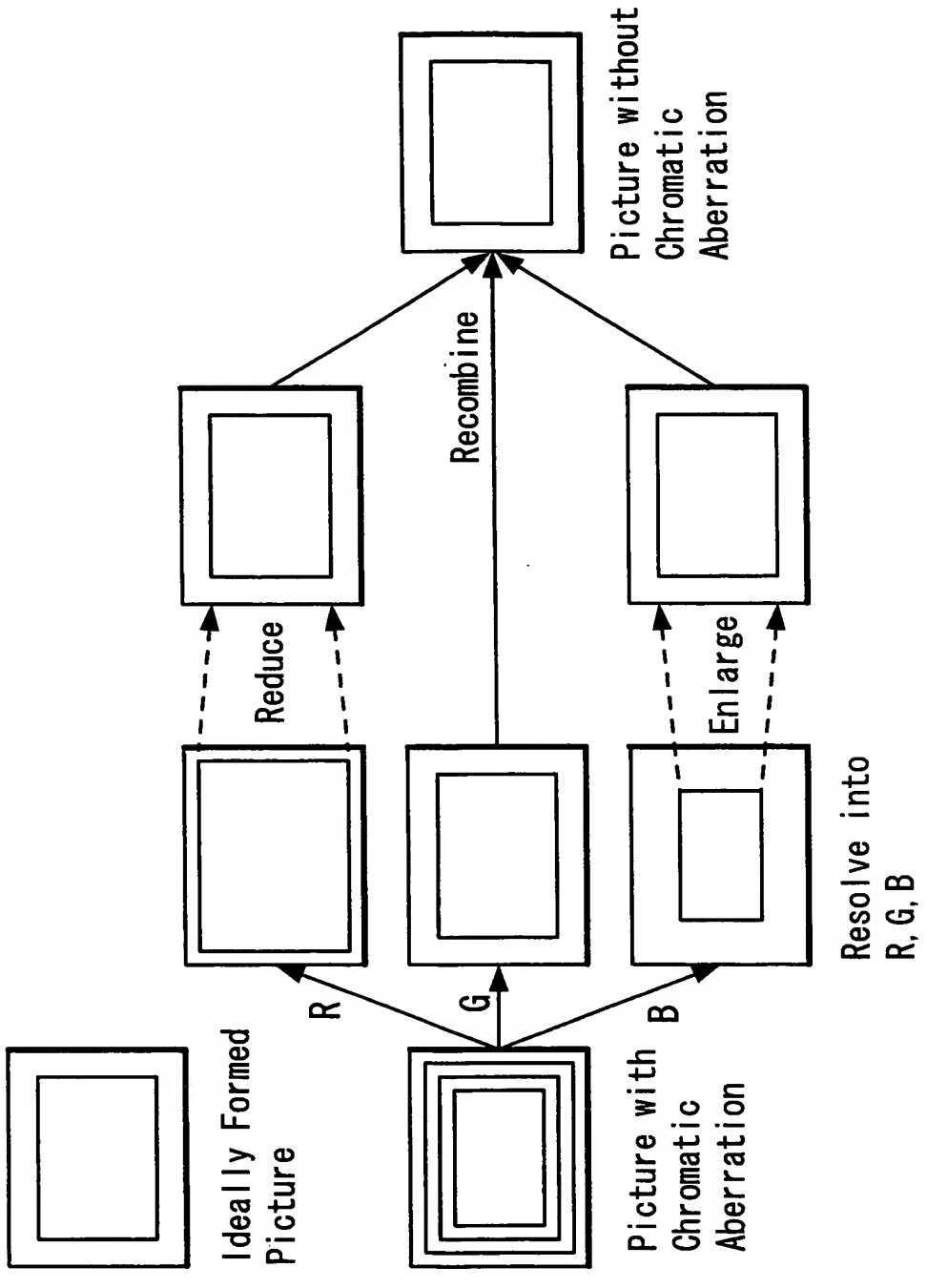

Ideally Formed Picture
R
G
B
Reduce
Recombine
Enlarge
Picture with Chromatic Aberration
Resolve into R, G, B
Picture without Chromatic Aberration

FIG. 3A

FIG. 3B

FIG. 4

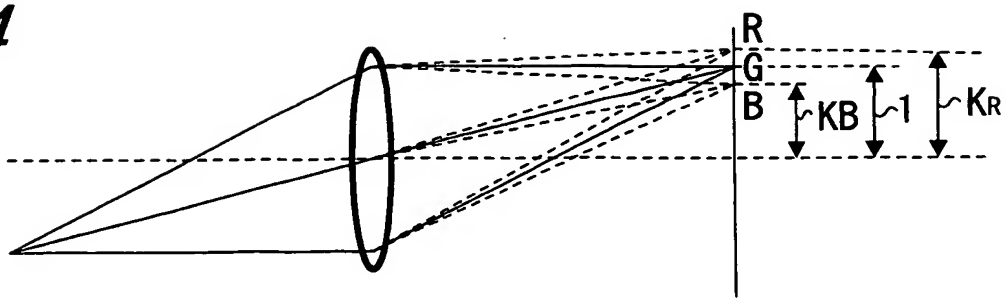


FIG. 5

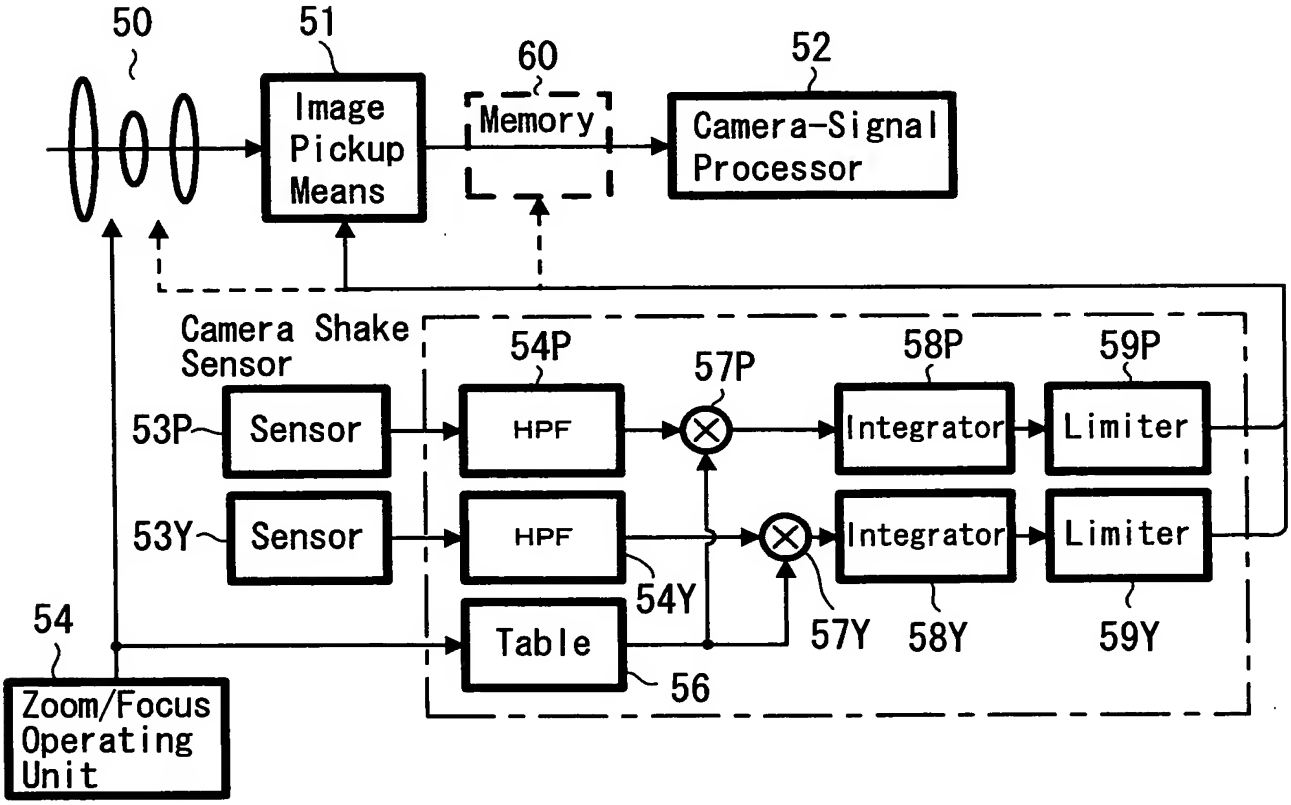
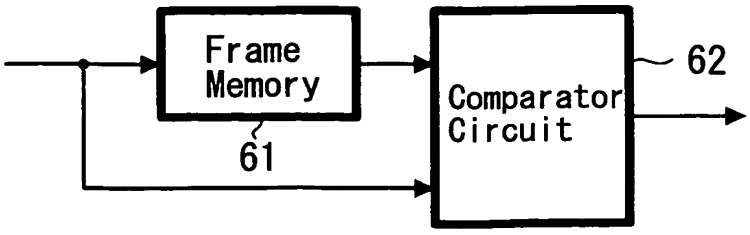


FIG. 6



DESCRIPTION OF REFERENCE SYMBOLS

1 ..... CAMERA LENS

2 ..... IMAGE PICKUP MEANS

3 ..... A/D CONVERTING CIRCUIT

4 ..... CAMERA-SIGNAL PROCESSING CIRCUIT

5 ..... SELECTOR SWITCH

6 ..... CHROMATIC ABERRATION CORRECTING UNIT

7P, 7Y .. SENSOR

8 ..... CONTROL MICROCOMPUTER

9 ..... CAMERA SHAKE CORRECTING-VECTOR CALCULATING UNIT

10..... CONVERSION-RATIO CALCULATING UNIT

11..... MANUAL INPUT MEANS

12..... SELECTOR SWITCH

13 ..... DISPLAY PROCESSING UNIT

14 ..... DISPLAY UNIT

15 ..... DATA COMPRESSION CIRCUIT

16 ..... DATA INSERTION CIRCUIT

17 ..... RECORDING AND REPRODUCING DEVICE

18 ..... DATA DECOMPRESSION CIRCUIT

19 ..... DATA I/O CIRCUIT

20 ..... USER INTERFACE INPUT

21 ..... MATRIX OPERATIONAL CIRCUIT

22R, 22G, 22B ..PICTURE MEMORY ON THE INPUT SIDE

23 ..... RESOLUTION CHANGING CIRCUIT

24R, 24G, 24B .. PICTURE MEMORY ON THE OUTPUT SIDE

25 ..... MATRIX OPERATIONAL CIRCUIT